

Species Tag:	29006	Species Name:	CO-17
Version:	2		Carbon monoxide,
Date:	Aug. 1997		¹⁷ O isotope
Contributor:	H. S. P. Müller		
Lines Listed:	50	Q(300.0)=	111.678
Freq. (GHz) <	5532	Q(225.0)=	83.828
Max. J:	50	Q(150.0)=	55.987
LOGSTR0=	-12.5	Q(75.00)=	28.157
LOGSTR1=	-12.5	Q(37.50)=	14.248
Isotope Corr.:	-3.432	Q(18.75)=	7.298
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	3.831
μ_a =	0.11034	A=	
μ_b =		B=	56179.990
μ_c =		C=	

The experimental measurements were reported by (1) M. Winnewisser, B. P. Winnewisser, and G. Winnewisser, in 1985, "Molecular Astrophysics, Series C" (G. H. F. Dierksen, W. F. Huebner, and P. W. Langhoff, Eds.), Vol. 157, pp. 375 – 402. Reidel, Dordrecht. No hyperfine splittings due to ¹⁷O have been reported in this study. Hyperfine splittings for the J = 1 – 0 transition were reported in (2) F. J. Lovas and E. Tiemann, 1974, J. Phys. Chem. Ref. Data **3**, 609-770. The experimental line positions and uncertainties, the logarithmic line strengths, and the quantum numbers $F' + 1/2$ and $F'' + 1/2$, are

112358.7200 0.1000 -5.6952 2 3
112358.9800 0.0200 -5.3942 4 3
112360.0160 0.0200 -5.5191 3 3

The dipole moment and dipole centrifugal corrections are taken from (3) D. Goorvitch, 1994, Astrophys. J. Suppl. **95**, 535. Additional rotational lines up to R(60) from (3) were included in the fit.